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May 14, 1980

DERWENT-ACC-NO: 1980-36794C

DERWENT-WEEK: 198021

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TITLE: Regeneration of gas desulphurisation spent metal oxide adsorbent - using inert gas contg. hydrogen sulphide (NL 7.5.80)

INVENTOR: CAHN, R P; LONGO, J M ; STEGER, J J

PATENT-ASSIGNEE:

ASSIGNEE

EXXON RES & ENG CO

CODE

ESSO

PRIORITY-DATA: 1978US-0957557 (November 3, 1978)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 2944754 A	May 14, 1980		000	
CA 1136384 A	November 30, 1982		000	
JP 55070324 A	May 27, 1980		000	
NL 7908098 A	May 7, 1980		000	

INT-CL (IPC): B01D 53/34

ABSTRACTED-PUB-NO: DE 2944754A

BASIC-ABSTRACT:

Regeneration of spent metal oxide adsorbents (I), from the Ce, Cu, Fe and Mg oxide gp., used for the desulphurisation of a waste gas stream at 300-700 degrees C., is carried out by contacting (I) with a reducing-regenerating gas contg. 0.5-100.0 (1-70) vol.% H₂S, rest unreactive gas (He, Ne, Ar, CO₂, N₂ and/or stream), at 300-700 degrees C. and a suitable flow rate, pref. of 50-50,000 V/V-hr.

The process is esp. useful for the purification of waste gas from Claus plants and the removal of SO₂/SO₃ from refinery waste gases or waste gases from the gasification of liquefaction of coal, heavy oil sand refineries etc., H₂S being obtd. as by-prod.

TITLE-TERMS: REGENERATE GAS DESULPHURISE SPENT METAL OXIDE ADSORB INERT GAS CONTAIN HYDROGEN SULPHIDE

DERWENT-CLASS: E36 H05 J01

CPI-CODES: E31-F01; E34-B; E34-E; E35-A; E35-U; H05-L01; J01-E02B;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

C800 C730 C108 C216 C316 C803 C802 C805 C804 C801